B.B.M.P

BRUHAT BENGALURU MAHANAGARA PALIKE

YELAHANKA ZONE

DIVISION: BYATARAYANAPURA

SUB DIVISION: VIDYARANYAPURA

Name of Work: Estimate for Improvements to Roads and Drains at Doddabommasandra old village, Katteramma Temple Roads and surrounding areas in Ward No. 13, (Doddabommasandra).

Estimated Cost Rs. 25.00 Lakhs

BRUHAT BANGALORE MAHANAGARA PALIKE

YELAHANKA ZONE

NAME OF WORK:- Improvements to Roads and Drains at Doddabommasandra old village, Katteramma Temple Roads and Surrounding areas in Ward No. 13, (Doddabommasandra)

Estimation Cost.Rs 2500000.00

Sl No	Description of work	Unit	Mesurement				Qty.	Rate	Amount
			No.	L	B	D			
1	Removing and resetting of footpath slab (Approved arrival rate)	Sqm							
	Drain Covering Slab								
			2	150.00		0.90	270.00		
	Consider 60% of Total Qty						162.00		
	Basic rate	235.00							
	Total						**162.00**	235.00	**38070.00**
2	Earth work Excavation by manual means for drains,canals, waste weir, draft, approach channels, key trenches, foundation of bridges and such simillar works in all kinds of soils , as per drawing and technical specifications, including setting out, shoring, strutting, barricading, caution lights, removal of stumps and other deleterious matter, excavated surface leveled and sides neatly dressed disposing off the excavated stuff or sorting & stacking the selected stuff for reuse in a radius of 50 m and lift upto 1.5 m including cost of labour, tools & other appurtenaces required to complete the work. **(PWD SR 2021-22 Vol -I Pg No 5 item no 1.4.1)**	Cum							
	New Culvert								
			5	5.50	2.00	1.20	66.00		
	Desilting of Drains								
			2	150.00	0.45	0.45	60.75		
	Basic rate	186.00							
	Area weightage 10%	18.60							
	Sub Total	204.60							
	Total						**126.75**	204.60	**25933.00**
3	Providing and laying in position Plain Cement Concrete Mix 1:3:6 (M10) for levelling course for all works in foundation. Using 40 mm nominal size graded crushed coarse aggregates and fine aggregates as per relevant IS Codes machine mixed, laid in layers not exceeding 150 mm thickness, well compacted using plate vibrators, including all lead & lifts, cost of all materials of quality, labour, Usage charges of machineries, curing, and all the other appurtenances required to complete the work as per technical specifications. **(PWD SR 2021-22 Vol -I Pg 15 item no 2.1.3)**	Cum							
	For Culvert								

Sl No	Description of work	Unit	Mesurement				Qty.	Rate	Amount
			No.	L	B	D			
			5	5.50	1.80	0.15	7.42		
	Issued Rate 07-07-2022 Basic rate	5554.00	✓						
	Area weightage 10%	555.40							
	Sub Total	6109.40							
	Total						**7.42**	6109.40	**45332.00**
4	Providing Size Stone masonry with hard stone in foundation & plinth with Cement mortar 1:6 (1 cement : 6 coarse sand) **Item No. 5.4, Page No. 9, Vol - II PWD SR 2021-22**	Cum							
	New Culvert								
	1st Course								
			5x2	5.50	0.60	0.45	14.85		
	2nd Course								
			5x2	5.50	0.45	0.45	11.14		
	Basic rate	5422.00	✓						
	Area weightage 10%	542.20							
	Sub Total	5964.20							
	Total						**25.99**	5964.20	**154995.00**
5	Providing ruled pointing to cursed stone masonry with lime mortar 1:3, 20mm deep, after raking joints to depth of 20mm nicely lining, including cost all materials, labour, usage charges of machinery, curing complete as pre specification. **Item No. 21.10 Page No. 190, Vol - II PWD SR 2021-22**	Sqm							
	Pointing								
			5x2	5.50		0.90	49.50		
	Basic rate	238.00	✓						
	Area weightage 10%	23.80							
	Sub Total	261.80							
	Total						**49.50**	261.80	**12959.00**
6	Providing and laying in position plain cement concrete for levelling course for all works in foundation. The granite / trap / basalt crushed graded coarse aggregates and fine aggregates as per relevant IS Codes machine mixed, laid in layers not exceeding 150 mm thickness, well compacted using plate vibrators, including all lead & lifts, cost of all materials of quality, labour, Usage charges of machineries, curing, and all the other appurtenances required to complete the work as per technical specifications. (The cost of steel reinforcement & formwork shall be paid separately **Mix 1:3:6 (M10) Using 20 mm nominal size graded crushed coarse aggregate (PWD SR 2021-22 Vol -I Pg 15 item no 2.1.4))**	Cum							
	Culvert Coping								
			5	5.50	1.50	0.10	4.13		
	Ramp								
			5x2	5.50	1.00	0.15	8.25		

Sl No	Description of work	Unit	Mesurement				Qty.	Rate	Amount
			No.	L	B	D			
	Issued Rate 07-07-2022 Basic rate	5728.00							
	Area weightage 10%	572.80							
	Sub Total	6300.80							
	Total						**12.38**	6300.80	**77972.00**
7	Providing and Fixing pre cast Covering Slab 230 mm thick made out of CC 1:2:4 and jelly 20mm Down size with steel reinforcement including form work,curing, including cost of all materials, labour, hire charges of machinery, loading, unloading, lead and lift, transportation etc, complete. As per Engineer incharge	Sqm							
	For Culvert								
			5	5.50	1.50		41.25		
	Data rate	5037.00							
	Total						**41.25**	5037.00	**207776.00**
8	Providing and Fixing pre cast Covering Slab 100 mm thick made out of CC 1:2:4 and jelly 20mm Down size with steel reinforcement including form work,curing, including cost of all materials, labour, hire charges of machinery, loading, unloading, lead and lift, transportation etc, complete. As per Engineer incharge	Sqm							
	CC Drain Missing Covering Slab								
			95	0.60	0.90		51.30		
			98	0.60	0.90		52.92		
			90	0.60	0.90		48.60		
	Data rate	2072.00							
	Total						**152.82**	2072.00	**316643.00**
9	Dismantling of cement concrete pavement by mechanical means using pneumatic tools, breaking to pieces not exceeding 0.02 m3 in volume and stock piling at designated locations and disposal of dismantled materials and stacking serviceable and unserviceable materials separately MORTH Specification No. 202 **(PWD SR 2021-22 Vol - III P.No.10 - I.No.2.19)**	Cum							
	CC Road Dismantling								
	Ramaswamappa Layout 2nd Cross		1	35.00	4.50	0.20	31.50		
	Ramaswamappa Layout 3rd Cross		1	35.00	4.50	0.20	31.50		
	Muninaranappa Layout # 18 kastuba opp		1	80.00	1.50	0.20	24.00		
	Renukamba Temple Cross Road		1	50.00	4.50	0.20	45.00		
	Basic rate	422.00							
	Area weightage 10%	42.20							
	Sub Total	464.20							
	Total						**132.00**	464.20	**61274.00**

Sl No	Description of work	Unit	Mesurement				Qty.	Rate	Amount
			No.	L	B	D			
10	Construction of Dry Lean Cement Concrete Sub-base over a prepared sub-grade with coarse and fine aggregate conforming to IS: 383, the size of coarse aggregate not exceeding 25 mm,aggregate cement ratio not to exceed 15:1, aggregate gradation after blending to be as per table 600-1, cement content not to be less than 150 kg/ m3 , optimum moisture content to be determined during trial length construction, concrete strength not to be less than 10 Mpa at 7 days, mixed in a batching plant, transported to site, laid with a paver with electronic sensor, compacting with 8-10 t vibratory roller, finishing and curing. MORTH Specification No. 601 **(PWD SR 2021-22 Vol - III P.No. 43 - I.No. 6.1)**	Cum							
	CC Road								
	Ramaswamappa Layout 2nd Cross		1	35.00	4.50	0.15	23.63		
	Ramaswamappa Layout 3rd Cross		1	35.00	4.50	0.15	23.63		
	Muninaranappa Layout # 18 kastuba opp		1	80.00	1.50	0.15	18.00		
	Renukamba Temple Cross Road		1	50.00	4.50	0.15	33.75		
	Issued Rate 07-07-2022 Basic rate	4025.00							
	Area weightage 10%	402.50							
	Sub Total	4427.50							
	Total						**99.00**	4427.50	**438323.00**
11	Providing and constructing un-reinforced plain Cement Concrete Pavement, thickness as per design, over a prepared sub base, with 43 grade cement or any other type as per Clause 1501.2.2 M30 (Grade), coarse and fine aggregates conforming to IS: 383, maximum size of coarse aggregate not exceeding 25 mm, mixed in a concrete mixer of not less than 0.2 cum capacity and appropriate weigh batcher using approved mix design, laid in approved fixed side formwork (steel channel, laying and fixing of 125 micron thick polythene film, wedges, steel plates including levelling the formwork as per drawing), spreading the concrete with shovels, rakes, compacted using needle, screed and plate vibrators and finished in continuous operation including construction joints, primer, sealant, curing of concrete slabs for 14- days, and water finishing to lines and grade as per drawing and technical specification clause 1501 with all lead, lifts, loading & unloading charges, cost and conveyance of all materials, labour, equipments etc., complete MORTH Specification No.1501 . as per the directions of the Engineer-in-charge of the work. **(PWD SR 2021-22 Vol -I Pg 138 item no 20.29)**	Cum							
	CC Road								
	Ramaswamappa Layout 2nd Cross		1	35.00	4.50	0.15	23.63		

Sl No	Description of work	Unit	Mesurement				Qty.	Rate	Amount
			No.	L	B	D			
	Ramaswamappa Layout 3rd Cross		1	35.00	4.50	0.15	23.63		
	Muninaranappa Layout # 18 kastuba opp		1	80.00	1.50	0.15	18.00		
	Renukamba Temple Cross Road		1	50.00	4.50	0.15	33.75		
	Issued Rate 07-07-2022 Basic rate	6512.00	✓						
	Area weightage 10%	651.20							
	Sub Total	7163.20							
	Total						**99.00**	7163.20	**709157.00**
12	Loading and Unloading of Stone Boulder / Stone aggregates / Sand / Kankar / Moorum. (Tipper 14 m3) (PWD SR 2021-22 Vol-III Page No.3, Item No.1.1C)	Cum							
	Qty Vide 90% of Item No- (2+9)						129.66		
	Total						**129.66**	81.40	**10554.00**
	Basic rate	74.00	✓						
	Area Weightage 10%	7.40							
	Total	81.40							
13	Cost of Haulage Excluding Loading and Unloading Taking output 18 t load and lead 10 km = 180 t.km (PWD SR 2021-22 Vol-III Page No.3, Item No.1.4B)	T.Km							
	Qty frm Item No-12			129.66	1.28		165.96		
	Total						**165.96**	115.50	**19168.00**
	15Km 7*15	105.00	✓						
	Area Weightage 10%	10.50							
	Total	115.50							
								Grand Total	**2118156.00**
							GST Charges (18% of estimated cost)		**381268.00**
							Miscellenious and rounding		**576.00**
								Total Amount	**2500000.00**

Administrative Approved
Accorded For 25.00 lakh only
Head of A/C P3726
CER NO : 136 16/09/22

EA CE (Elec)

Rupees Twenty Five Lakh(s) Only

CERTIFICATE:

1) The work spot has been inspected and found to be necessary.
2) The work spot comes under B.B.M.P Limits.
3) The provisions made in the estimate are necessary and minimum.
4) The estimate is based on C.S.R of PWD 2018-19, 2021-22, Issue rates and Data Rates.

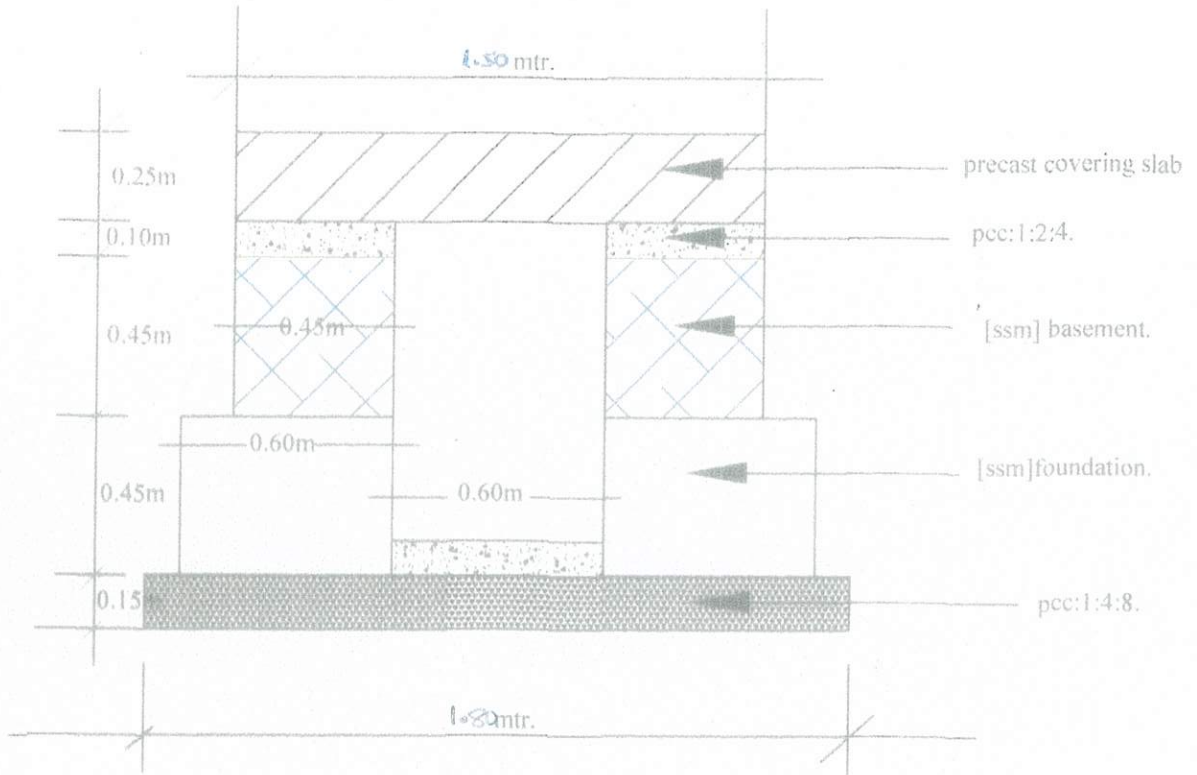
Assistant Engineer
Ward No. 13, Doddabommasandra

Assistant Executive Engineer
Vidyaranyapura Sub Division

Executive Engineer
Byatarayanapura Division

Technical Sanction
Accorded For 25.00 lakh only
Head of A/C P3726
CER NO : 136 Dt: 16/09/22

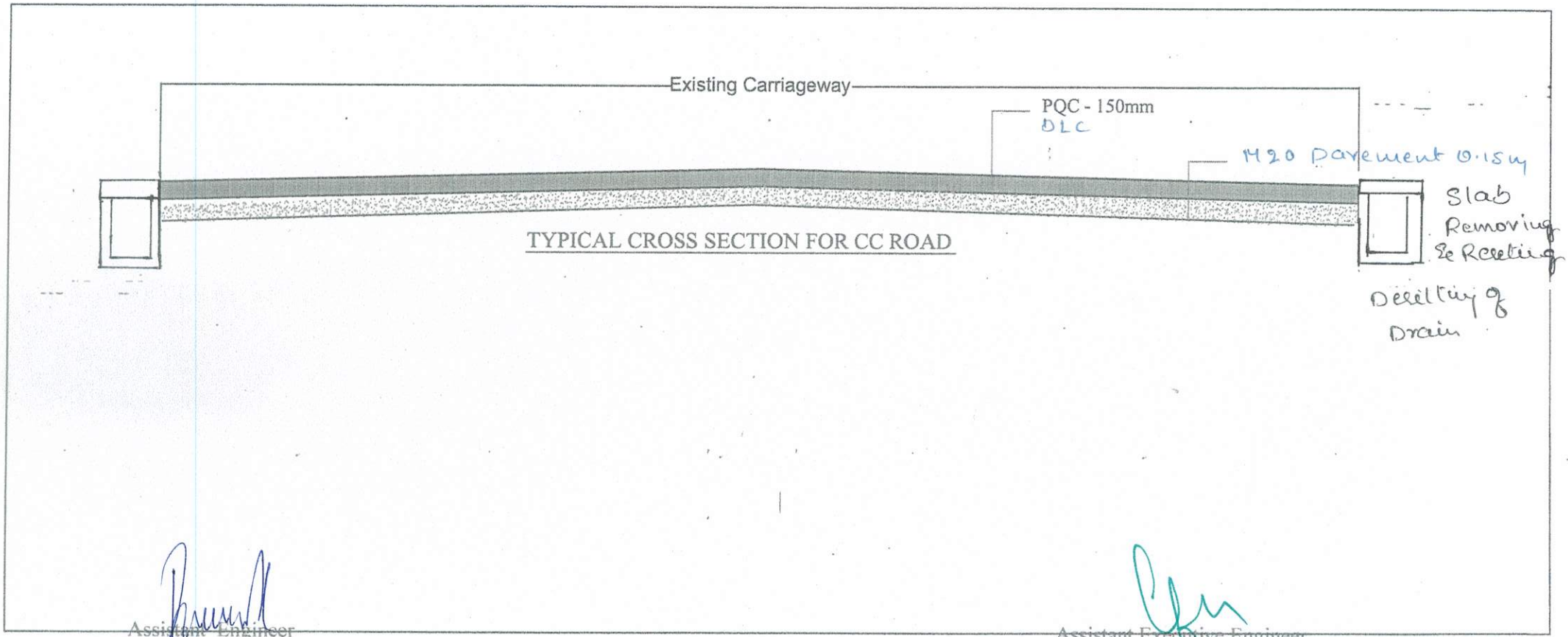
EA



CROSS SECTION OF CULVERT

ASSISTANT ENGINEER.

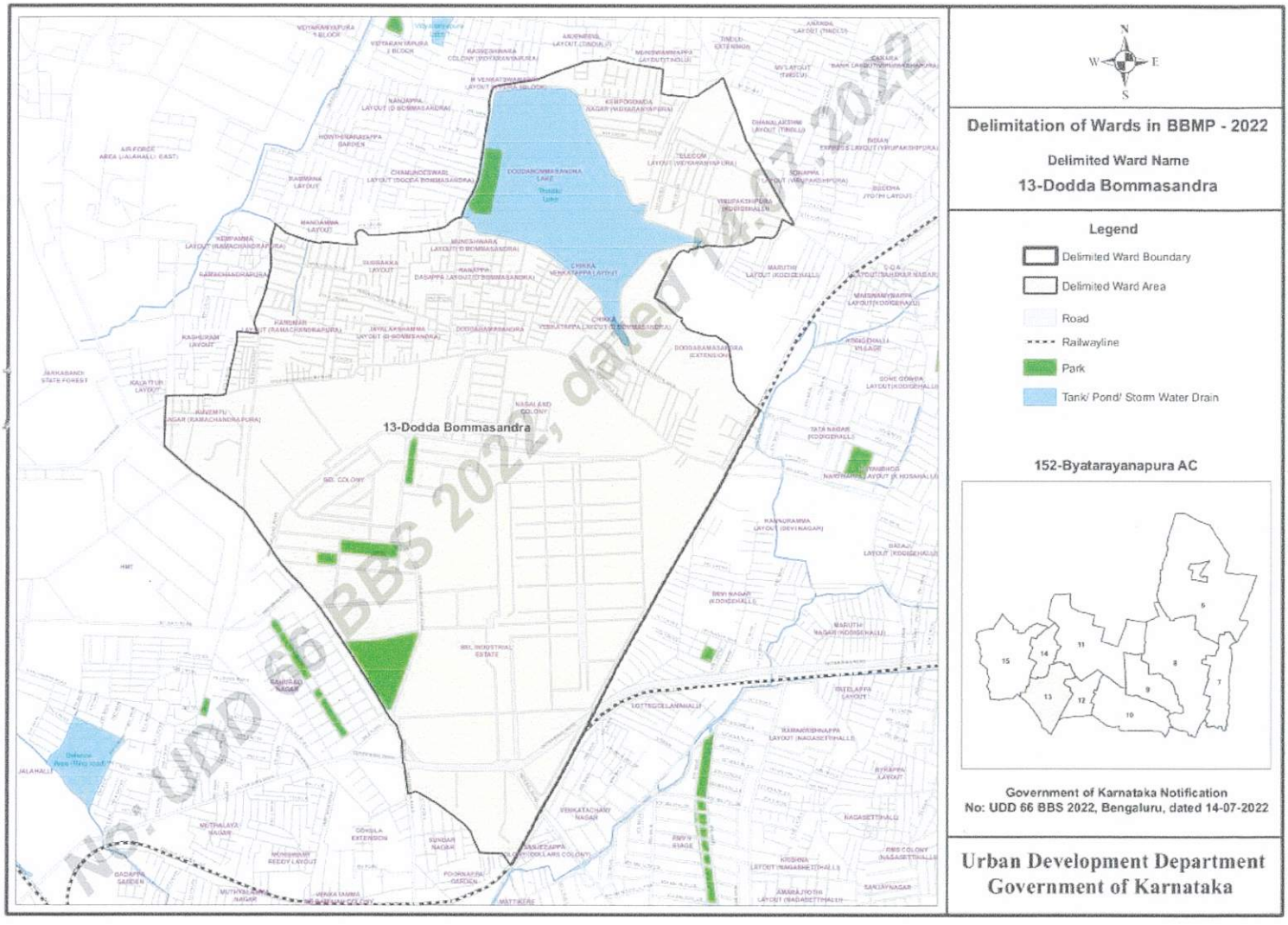
ASSISTANT EXECUTIVE ENGINEER.



TYPICAL CROSS SECTION FOR CC ROAD

Assistant Engineer

Assistant Executive Engineer


13-Dodda Bommasandra
N
W
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S
Delimitation of Wards in BBMP - 2022
Delimited Ward Name
13-Dodda Bommasandra
Legend
Delimited Ward Boundary
Delimited Ward Area
Road
Railwayline
Park
Tank/ Pond/ Storm Water Drain
152-Byatarayanapura AC
Government of Karnataka Notification
No: UDD 66 BBS 2022, Bengaluru, dated 14-07-2022
Urban Development Department
Government of Karnataka